

**SL185024-A-C3**

Cylindrical roller bearing

Cylindrical roller bearing SL1850..-A, full complement roller set, two-row, semi-locating bearing, 1 rib on outer ring, 3 ribs on inner ring, type SL18

Technical information



Your current product variant

| | | |
|---------------------------|--------------|-----------------------------------|
| Design | A | Internal Variant A |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Tolerance class | PN | Normal (ISO 492:2023) |
| Number of rows | 2 | Double-row design |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 120 mm | Bore diameter |
| D | 180 mm | Outside diameter |
| B | 80 mm | Width |
| C_r | 510.000 N | Basic dynamic load rating, radial |
| C_{0r} | 850.000 N | Basic static load rating, radial |
| C_{ur} | 119.000 N | Fatigue load limit, radial |
| n_G | 2.160 1/min | Limiting speed |
| n_{gr} | 1.530 1/min | Reference speed |
| $\approx m$ | 6,488 kg | Weight |





Mounting dimensions

| | | |
|----------------------|----------|--------------------------------------|
| $d_{c \text{ min}}$ | 138,5 mm | Minimum shaft shoulder |
| $d_{a \text{ min}}$ | 138,8 mm | Minimum diameter shaft shoulder |
| $D_{a \text{ max}}$ | 161 mm | Maximum diameter of housing shoulder |
| $r_{a \text{ max}}$ | 2 mm | Maximum recess radius |
| $r_{a1 \text{ max}}$ | 2 mm | Maximum recess radius |
| $D_{e \text{ min}}$ | 160,7 mm | Minimum diameter of housing shoulder |






Dimensions

| | | |
|---------------------|----------|---------------------------------|
| r_{min} | 2 mm | Minimum chamfer dimension |
| $r_{1 \text{ min}}$ | 2 mm | Minimum chamfer dimension |
| s | 5 mm | Axial displacement |
| C | 40 mm | Distance to lubrication hole |
| d_1 | 138,8 mm | Maximum rib diameter inner ring |
| $D_1 \text{ min}$ | 160,7 mm | Minimum rib diameter outer ring |
| E | 168,2 mm | Raceway diameter outer ring |

Temperature range

| | | |
|------------------|--------|----------------------------|
| T_{min} | -30 °C | Operating temperature min. |
| T_{max} | 120 °C | Operating temperature max. |

Characteristics

| | |
|---|-----------------------------|
|  | Radial load |
|  | Axial load in one direction |
|  | Grease Lubrication |
|  | Oil Lubrication |
|  | Not sealed |